Enduring Skill	Reference to Standards	What's Mastery Look Like at your Grade Level?	Sources of Evidence: What is available or needs to be developed?
Use scientific thinking to question the natural and designed world.	*Framework for K-12 Science Education,* **Practice 1: Asking Questions & Defining Problems**, pages 54-56. NGSS Appendix F, pages 4, 17-18		
Use scientific thinking to define problems within the natural and designed world.	*Framework for K-12 Science Education,* **Practice 1: Asking Questions & Defining Problems**, pages 54-56. NGSS Appendix F, pages 4, 17-18		
Develop and refine models to explain, predict, and investigate the natural and designed world.	*Framework for K-12 Science Education,* **Practice 2: Developing and Using Models**, pages 56-59. NGSS Appendix F, pages 19-20		
Use models to explain, predict, and investigate the natural and designed world, including identifying the limitations of the models.	*Framework for K-12 Science Education,* **Practice 2: Developing and Using Models**, pages 56-59. NGSS Appendix F, pages 19-20		

Plan and carry out investigations.	*Framework for K-12 Science Education,* **Practice 3: Planning and Carrying Out Investigations**, pages 59-61. NGSS Appendix F, page7, 21		
Organize and use data to support claims or conclusions.	*Framework for K-12 Science Education*, **Practice 4: Analyzing and Interpreting Data**, pages 61-63 NGSS Appendix F, pages 9, 23-24		
Analyze data to make sense of phenomena or determine an optimal design solution.	*Framework for K-12 Science Education*, **Practice 4: Analyzing and Interpreting Data**, pages 61-63 NGSS Appendix F, pages 9, 23-24		
Construct explanations based on scientific evidence.	*Framework for K-12 Science Education*, **Practice 6: Constructing Explanations and Designing Solutions,** pages 67-71 NGSS Appendix F**,** pages 11-12, 27-28		

Design and refine solutions to problems.	*Framework for K-12 Science Education*, **Practice 6: Constructing Explanations and Designing Solutions,** pages 67-71 NGSS Appendix F, pages 11-12, 27-28	.	
Argue using scientific evidence.	*Framework for K-12 Science Education*, **Practice 7: Engaging in Argument from Evidence,** pages 71-74 NGSS Appendix F, , pages 13-14, 29-30		
Use evidence to evaluate claims.	*Framework for K-12 Science Education*, **Practice 7: Engaging in Argument from Evidence,** pages 71-74 NGSS Appendix F, pages 13-14, 29-30		
Obtain information to determine patterns in and/or evidence about the natural or designed world.	*Framework for K-12 Science Education*, **Practice 8: Obtaining, Evaluation, and Communicating Information**, pages 74-77. NGSS Appendix F, pages 31-32.		

Evaluate information to determine usefulness and value.	*Framework for K-12 Science Education*, **Practice 8: Obtaining, Evaluation, and Communicating Information**, pages 74-77. NGSS Appendix F, pages 31-32.		
Communicate information in a variety of developmentally appropriate formats.	*Framework for K-12 Science Education*, **Practice 8: Obtaining, Evaluation, and Communicating Information**, pages 74-77. NGSS Appendix F, pages 31-32.		